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(54) Microscope calibration

(57) A microscope calibrator probe (50) includes a handle (55), a tool head (60) connected to the handle, a viewable target (90) connected to an end of the tool head opposite the handle, and three or more position signalling devices (75a-c) disposed on the handle for tracking the probe in an image guided surgery system. The tool head includes a bend of approximately 90 degrees to provide easy placement of the viewable target on an object being viewed below a microscope. Other angles for the bend are also acceptable. A precise lo-

cation of the object being viewed is determined by sensing a location the three or more position signalling devices disposed on the handle with respect to an operating room reference frame and knowing an offset between the position signalling devices and a bottom surface of the viewable target in contact with the object. Additionally, the viewable target includes a viewable aperture (95) for calibrating a line of sight of the microscope and a means for indicating a rotational sense of the viewable target.

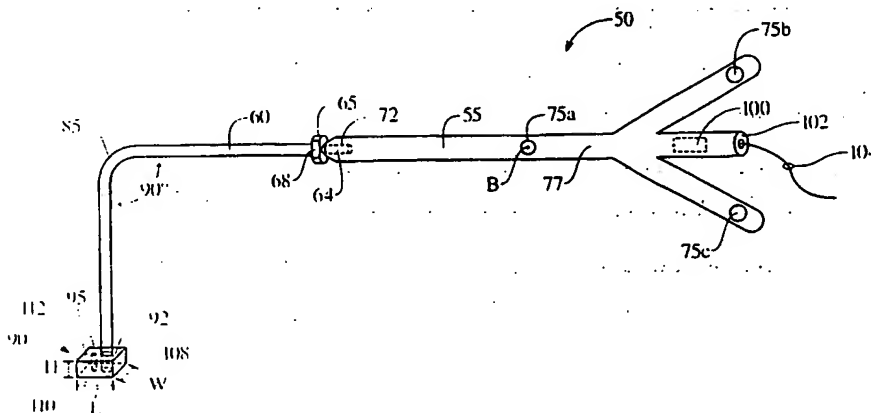


Fig. 3

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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 7430

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A	WO 96 07144 A (MASSACHUSETTS INST TECHNOLOGY) 7 March 1996 (1996-03-07) * page 19, line 2 - line 38 * * page 20, line 1 - line 28 * * figure 6 * -----	1-3,18	TECHNICAL FIELDS SEARCHED (Int.Cl.6)  G02B
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>29 September 1999</b>	Examiner <b>Ward, S</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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